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APPLICATION NO.		FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.		
10/762,272		01/23/2004	Wang-On Kwok	MR1345-725	5533		
4586	7590	10/04/2005		EXAM	EXAMINER		
		LEIN & LEE	SINGH, RAMNANDAN P				
		ENTER DRIVE-S' MD 21043	UITE 101	ART UNIT	PAPER NUMBER		
	,			2646			
			DATE MAILED: 10/04/2005				

Please find below and/or attached an Office communication concerning this application or proceeding.

	,	Application No.	Applicant(s)				
ſ		10/762,272	KWOK, WANG-ON				
	Office Action Summary	Examiner	Art Unit				
		Ramnandan Singh	2646				
Period fo	The MAILING DATE of this communication app or Reply	ears on the cover sheet	with the correspondence addre	ess			
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Status							
1)⊠ 2a)□ 3)□	Responsive to communication(s) filed on 23 Ja This action is FINAL . 2b) This Since this application is in condition for allowar closed in accordance with the practice under E	action is non-final.	•	erits is			
Disposit	ion of Claims	•					
5)□ 6)⊠ 7)□ 8)□ Applicat i 9)□ 10)⊠	Claim(s) 1-3 is/are pending in the application. 4a) Of the above claim(s) is/are withdraw Claim(s) is/are allowed. Claim(s) 1-3 is/are rejected. Claim(s) is/are objected to. Claim(s) are subject to restriction and/or ion Papers The specification is objected to by the Examine The drawing(s) filed on 23 January 2004 is/are: Applicant may not request that any objection to the Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct The oath or declaration is objected to by the Examine Replacement drawing sheet(s) including the correct Theorem Repl	r election requirement. r. a)□ accepted or b)⊠ drawing(s) be held in abey ion is required if the drawi	ance. See 37 CFR 1.85(a). ng(s) is objected to. See 37 CFR	• •			
Priority ι	ınder 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received.							
2) 🔲 Notic 3) 🔲 Inforr	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (PTO-948) nation Disclosure Statement(s) (PTO-1449 or PTO/SB/08) r No(s)/Mail Date	Paper N	v Summary (PTO-413) b(s)/Mail Date f Informal Patent Application (PTO-15	52)			

Application/Control Number: 10/762,272

Art Unit: 2646

Page 2

DETAILED ACTION

Drawings

1. Figure 4 should be designated by a legend such as --Prior Art-- because only that which is old is illustrated. See MPEP § 608.02(g). Corrected drawings in compliance with 37 CFR 1.121(d) are required in reply to the Office action to avoid abandonment of the application. The replacement sheet(s) should be labeled "Replacement Sheet" in the page header (as per 37 CFR 1.84(c)) so as not to obstruct any portion of the drawing figures. If the changes are not accepted by the examiner, the applicant will be notified and informed of any required corrective action in the next Office action. The objection to the drawings will not be held in abeyance.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 3. Claims 1-3 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cha [US 6,788,962 B2] in view of Griffin [US 20050053225 A1] and further in view of Komuro et al [US 4,605,825].

Regarding claim 1, Cha teaches a telephone keypad layout shown in Fig. 2B, comprising:

Page 3

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15 keys arranged into an 3X5 array, the 15 keys including a set of number keys for entry of numbers 0.about.9, two function keys "*" and "#", and three selector keys, the selector keys including a first selector (SHIFT) key (CO1), a second selector (ALT) key (CO2) and a third selector(CRTL) key (CO3), and 26 English letters. The first selector key for pressing by the user to switch the functions between Capital/Lower-case letter [Figs. 2B, 3; col. 4, line 51 to col.6, line 41; col. 6, line 56 to col. 8, line 17; col. 3, line 34 to col. 4, line 10].

Cha does not teach expressly arranging 26 English letters in pairs. However, arranging English letters in any combination including two or three is well-known in the art.

Griffin et al teach arranging English letters in a combination of two and three in a telephone keypad [Figs. 6-12; Para: 0046-0064].

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teachings of Griffin et al with Cha in order to mitigate the difficulty in using existing keypads with small handheld electronic devices [Griffin et al; Para: 0006].

Further, although Cha teaches adding other functions to the above three function keys without increasing the number of keys in the mobile communication terminal, he

does not teach expressly modifying the three functions keys to perform the functions as claimed.

Komuro et al teach a method for assigning functions to assignable-function keys on a telephone keypad [Figs. 1-15; col. 3, line 58 to col. 6, line 35; col. 10, lines 6-55].

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to combine the teachings of Komuro et al with Cha by assigning more functions including the claimed ones to the above three function keys of Cha in order to reduce the operation time of a telephone line and improve the overall efficiency of office line use [Komuro et al; col. 1, line 63 to col. 2, line 2].

Regarding claims 2-3, Cha does no teach expressly a voice mode key and a message key. However, these two are special functions that can be assigned to function keys as shown above.

Conclusion

- The prior art made of record and not relied upon is considered pertinent to 4. applicant's disclosure.
 - (i) Yang et al [US 6,005,498] teach telephone keypad layouts having special keys [Fig. 3; col. 2, line 63 to col. 3, line 31];

Application/Control Number: 10/762,272

Art Unit: 2646

(ii) Danish et al [US 5,339,358] teach a method for converting a standard push

Page 5

button telephone keypad into a data entry terminal permitting full alphanumeric

entry [Whole document];

(iii) Wen [US 4,825,464] teaches a 3X5 keypad [Figs. 9, -13; Abstract]; and

(iv) Schaupp, Jr. et al [US 5,594,778] teach a 3X5 keypad and selecting a mode

using a menu function [Whole document].

5. Any inquiry concerning this communication or earlier communications from the

examiner should be directed to Ramnandan Singh whose telephone number is (571)

272-7529. The examiner can normally be reached on M-TH (8:00-5:30).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Sinh Tran can be reached on (571) 272-7564. The fax phone number for

the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the

Patent Application Information Retrieval (PAIR) system. Status information for

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you have questions on access to the Private PAIR system, contact the Electronic

Business Center (EBC) at 866-217-9197 (toll-free).

Ramnandan Singh

Examiner

Art Unit 2646

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